

Sept Tuesday 8/5/03

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18

Access DB# 160878

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Richard Lee Examiner #: 71786 Date: 8/11/03
Art Unit: 2613 Phone Number 308-6612 Serial Number: _____
Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Litigation
2) US 5745182 (child) family
1) US 5369449 (parent)
first 1)

Need by Tues. a.m.

See attached Look for
Sink # 46

STAFF USE ONLY		Type of Search	Vendors and cost where applicable
Searcher:	<u>Pamela Reynolds</u>	NA Sequence (#)	STN _____
Searcher Phone #:	<u>308-6655</u>	AA Sequence (#)	Dialog <input checked="" type="checkbox"/>
Searcher Location:	<u>PL2 3C03</u>	Structure (#)	Questel/Orbit <input checked="" type="checkbox"/>
Date Searcher Picked Up:	<u>8/12/03</u>	Bibliographic	Dr. Link _____
Date Completed:	<u>8/12/03</u>	Litigation	Lexis/Nexis <input checked="" type="checkbox"/>
Searcher Prep & Review Time:		Fulltext	Sequence Systems _____
Clerical Prep Time:		Patent Family	WWW/Internet _____
Online Time:		Other	Other (specify) _____

1 / 1 PLUSPAT - ©QUESTEL-ORBIT

PN - US5369449 A 19941129 [US5369449]

TI - (A) Method for predicting move compensation

PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)

PA0 - Matsushita Electric Industrial Company, Ltd., Osaka [JP]

IN -

(A) YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)

AP -

US97004692 19921102 [1992US-0970046]

PR- JP18198092 19920709 [1992JP-0181980]

JP29300491 19911108 [1991JP-0293004]

IC - (A) H04N-007/137

EC- H04N-005/14M2

H04N-005/44P

H04N-007/26P36E

H04N-007/36E

H04N-007/36E4

H04N-007/36E8

H04N-007/46E

PCL - ORIGINAL (O) : 348699000; CROSS-REFERENCE (X) : 375240120

DT -

Corresponding document

CT - US4691230; US4864294; US4989089; US4998168; US5049991; US5093720; US5105271; US5132792; US5144427; US5162907; US5175618; US5191414; US5200820; US5210605; EP0395271 A2; EP0395440 A2; EP0447068 A2; EP0484140 A2

A. Puri, et al, "Video Coding with Motion-Compensated Interpolation for CD-ROM Applications", Signal Processing. Image Communication, vol. 2, No. 2, pp. 127-144, Aug. 1990.

K. Kinuhata, et al, "Universal Digital TV Codec-Unicode", 7th International Conference on Digital Satellite Communications, May 1986, pp. 281-288.

M. Hoetter, "Differential Estimation of the Global Motion Parameters Zoom and Pan", Signal Processing. European Journal Devoted to the Methods and Applications of Signal Processing, vol. 16, No. 3, Mar. 1989, pp. 249-265.

Patent Abstracts of Japan, vol. 016, No. 097 (E-1176) 10 Mar. 1992 & JP-A-03 276 988 (Victor Company of Japan Ltd) 9 Dec. 1991.

"Transmission of Component-Coded Digital Television Signals for Contribution-Quality Applications of the Third Hierarchical Level of CCITT Recommendation G.702," CCITT Recommendation 723 of CMTT.Takeshi Yukitake, "Field-Time Adjusted MC for Frame-Base Coding (2)" International Organization for Standardization ISO/IEC/JTC1/SC29/WG11 MPEG92/100, Mar. 11, 1992.

Takeshi Yukitake, "Field-Time Adjusted MC for Frame-Base Coding" CCITT SGXV Working Party XV/1 Experts Group for ATM Video Coding, AVC-194 MPEG 92/024s, Dec. 1991. Shiji Inoue, et al "Motion Compensation Method for Interlace Video" Spring conference of the institute of Electronics Information and Communication Engineers of Japan, 1992.

STG - (A) United States patent

AB - A method for predicting move compensation of an input image based on a move vector of the input image from this input image to a reference image which has been sampled at a first set time, and the method includes calculating a move vector of the input image based on a move, at a second set time, of a block unit which is a part of the input image and consists of a plurality of pixels, and calculating a move vector of the reference image based on a move, at the first set time, of a block unit which is a part of the reference image and consists of a plurality of pixels. Move

compensation of the input image is calculated both from the move vector of the input image and from the move vector of the reference image, to thereby realize a method for predicting move compensation with high precision.

1 / 1 LGST - ©LEGSTAT
PN - US 5369449 [US5369449]
AP- US 970046/92 19921102 [1992US-0970046]
DT- US-P
ACT- 19921102 US/AE-A
APPLICATION DATA (PATENT)
US 970046/92 19921102 [1992US-0970046]

19921102 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
MATSUSHIA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZA KADOMA,
KADOMA-SHI OSAKA,
JAP * YUKITAKE, TAKESHI : 19921028; INOUE, SHUJI : 19921028

19941129 US/A
PATENT
UP - 1999-15

3/39/1 (Item 1 from file: 345)
DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
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Basic Patent (No,Kind,Date): CA 2082280 AA 19930509 <No. of Patents: 016>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date
AU 637289	B1	19930520	AU 9228162	A	19921104
CA 2082280	AA	19930509	CA 2082280	A	19921105 (BASIC)
CA 2082280	C	19950207	CA 2082280	A	19921105
DE 69225863	C0	19980716	DE 69225863	A	19921106
DE 69225863	T2	19981022	DE 69225863	A	19921106
EP 541389	A2	19930512	EP 92310187	A	19921106
EP 541389	A3	19940330	EP 92310187	A	19921106
EP 541389	B1	19980610	EP 92310187	A	19921106
JP 5130594	A2	19930525	JP 91293004	A	19911108
JP 6030395	A2	19940204	JP 92181980	A	19920709
JP 2929044	B2	19990803	JP 91293004	A	19911108
JP 2938677	B2	19990823	JP 92181980	A	19920709
KR 9506774	B1	19950622	KR 9220769	A	19921106
US 5369449	A	19941129	US 970046	A	19921102
US 5745182	A	19980428	US 278010	A	19940720
US 5978032	A	19991102	US 883315	A	19970626

Priority Data (No,Kind,Date):

JP 91293004	A	19911108
JP 92181980	A	19920709
US 278010	A	19940720
US 970046	A3	19921102
US 883315	A	19970626
US 278010	A3	19940720

PATENT FAMILY:

AUSTRALIA (AU)

Patent (No,Kind,Date): AU 637289 B1 19930520
METHOD FOR PREDICTING MOVE COMPENSATION (English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
Author (Inventor): YUKITAKE TAKESHI; INOUE SHUJI
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709
Applic (No,Kind,Date): AU 9228162 A 19921104
IPC: * G06F-015/70; G06F-015/68; H04N-007/137
Language of Document: English

CANADA (CA)

Patent (No,Kind,Date): CA 2082280 AA 19930509
METHOD FOR PREDICTING MOVE COMPENSATION (English; French)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709
Applic (No,Kind,Date): CA 2082280 A 19921105
IPC: *) H04N-007/12
Language of Document: English
Patent (No,Kind,Date): CA 2082280 C 19950207
METHOD FOR PREDICTING MOVE COMPENSATION (English; French)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 92181980 A 19920709; JP 91293004 A 19911108

Applie (No,Kind,Date): CA 2082280 A 19921105
IPC: * H04N-007/12
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: English

GERMANY (DE)

Patent (No,Kind,Date): DE 69225863 CO 19980716
VERFAHREN ZUR PRAEDIKTIVEN KODIERUNG MIT BEWEGUNGSKOMPENSATION (German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709
Applie (No,Kind,Date): DE 69225863 A 19921106
IPC: * H04N-007/24; H04N-007/32
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: German
Patent (No,Kind,Date): DE 69225863 T2 19981022
VERFAHREN ZUR PRAEDIKTIVEN KODIERUNG MIT BEWEGUNGSKOMPENSATION (German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709
Applie (No,Kind,Date): DE 69225863 A 19921106
IPC: * H04N-007/24; H04N-007/32
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: German

GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):
DE 69225863 P 19980716 DE REF CORRESPONDS TO (ENTSPRICHT)
DE 69225863 EP 541389 P 19980716 TRANSLATION OF PATENT
DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND
HAS BEEN PUBLISHED (UEBERSETZUNG DER
PATENTSCHRIFT DES EUROPAEISCHEN PATENTES IST
EINGEGANGEN UND VEROEFFENTLICHT WORDEN)
DE 69225863 P 19990708 DE 8364 NO OPPOSITION DURING TERM OF
OPPOSITION (EINSPRUCHSFRIST ABGELAUFEN OHNE
DASS EINSPRUCH ERHOBEN WURDE)

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 541389 A2 19930512
METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709
Applie (No,Kind,Date): EP 92310187 A 19921106
Designated States: (National) BE; DE; FR; GB; NL; SE
IPC: * H04N-007/13
Derwent WPI Acc No: ; G 93-154317
Language of Document: English
Patent (No,Kind,Date): EP 541389 A3 19940330
METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A

19920709

Applic (No,Kind,Date): EP 92310187 A 19921106
Designated States: (National) BE; DE; FR; GB; NL; SE
IPC: * H04N-007/13

Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053
Language of Document: English

Patent (No,Kind,Date): EP 541389 B1 19980610
METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 92181980 A 19920709; JP 91293004 A 19911108

Applic (No,Kind,Date): EP 92310187 A 19921106
Designated States: (National) BE; DE; FR; GB; NL; SE
IPC: * H04N-007/24; H04N-007/32
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 541389	P	19911108	EP AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
EP 541389	P	19920709	EP AA	JP 91293004 A 19911108 PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
EP 541389	P	19921106	EP AE	JP 92181980 A 19920709 (EUROPAEISCHE ANMELDUNG)
EP 541389	P	19930512	EP AK	EP 92310187 A 19921106 DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT (IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
EP 541389	P	19930512	EP A2	BE DE FR GB NL SE DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT)
EP 541389	P	19940330	EP AK	DESIGNATED CONTRACTING STATES IN A SEARCH REPORT (IN EINEM RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
EP 541389	P	19940330	EP A3	BE DE FR GB NL SE SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93) (GESONDerte VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))
EP 541389	P	19941019	EP 17P	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT) 940818
EP 541389	P	19951220	EP 17Q	FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHEID) 951102
EP 541389	P	19980610	EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION: (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNTE VERTRAGSSTAATEN)

BE DE FR GB NL SE
EP 541389 P 19980610 EP B1 PATENT SPECIFICATION
(PATENTSCHRIFT)
EP 541389 P 19980716 EP REF CORRESPONDS TO:
(ENTSPRICHT)
DE 69225863 P 19980716
EP 541389 P 19980911 EP ET FR: TRANSLATION FILED (FR:
TRADUCTION A ETE REMISE)
EP 541389 P 19990602 EP 26N NO OPPOSITION FILED (KEIN
EINSPRUCH EINGELEGT)
EP 541389 P 20020101 GB 102/REG EUROPEAN PATENT IN FORCE AS
OF 2002-01-01

JAPAN (JP)

Patent (No,Kind,Date): JP 5130594 A2 19930525
DEVICE FOR PREDICTIVE ENCODING BETWEEN MOTION-COMPENSATED FRAMES
(English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
Author (Inventor): INOUE SHUJI
Priority (No,Kind,Date): JP 91293004 A 19911108
Applic (No,Kind,Date): JP 91293004 A 19911108
IPC: * H04N-007/137; H03M-007/30
JAPIO Reference No: ; 170511E000053
Language of Document: Japanese
Patent (No,Kind,Date): JP 6030395 A2 19940204
METHOD FOR PREDICTING MOTION COMPENSATION (English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
Author (Inventor): NAMETAKE TAKESHI; INOUE SHUJI
Priority (No,Kind,Date): JP 92181980 A 19920709
Applic (No,Kind,Date): JP 92181980 A 19920709
IPC: * H04N-007/137
JAPIO Reference No: ; 180246E000083
Language of Document: Japanese
Patent (No,Kind,Date): JP 2929044 B2 19990803
Priority (No,Kind,Date): JP 91293004 A 19911108
Applic (No,Kind,Date): JP 91293004 A 19911108
IPC: * H04N-007/32; H03M-007/30
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053
Language of Document: Japanese
Patent (No,Kind,Date): JP 2938677 B2 19990823
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
Author (Inventor): NAMETAKE TAKESHI; INOUE SHUJI
Priority (No,Kind,Date): JP 92181980 A 19920709
Applic (No,Kind,Date): JP 92181980 A 19920709
IPC: * H04N-007/32
Language of Document: Japanese

KOREA, REPUBLIC (KR)

Patent (No,Kind,Date): KR 9506774 B1 19950622
MOTION COMPENSATION PREDICTIVE METHOD (English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SYUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A
19920709
Applic (No,Kind,Date): KR 9220769 A 19921106
IPC: * H04N-007/24
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: Korean

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5369449 A 19941129
METHOD FOR PREDICTING MOVE COMPENSATION (English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 92181980 A 19920709; JP 91293004 A
19911108
Applc (No,Kind,Date): US 970046 A 19921102
National Class: * 348699000; 348416000
IPC: * H04N-007/137
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: English
Patent (No,Kind,Date): US 5745182 A 19980428
METHOD FOR DETERMINING MOTION COMPENSATION (English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): US 278010 A 19940720; JP 91293004 A
19911108; JP 92181980 A 19920709; US 970046 A3 19921102
Applc (No,Kind,Date): US 278010 A 19940720
Addnl Info: 5369449 Patented
National Class: * 348416000; 348699000
IPC: * H04N-007/32
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: English
Patent (No,Kind,Date): US 5978032 A 19991102
METHOD FOR PREDICTING MOTION COMPENSATION (English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): US 883315 A 19970626; JP 91293004 A
19911108; JP 92181980 A 19920709; US 278010 A3 19940720; US
970046 A3 19921102
Applc (No,Kind,Date): US 883315 A 19970626
Addnl Info: 5745182 Patented; 5369449 Patented
National Class: * 348416000; 348699000
IPC: * H04N-007/32
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):
US 5369449 P 19911108 US AA PRIORITY (PATENT)
JP 91293004 A 19911108
US 5369449 P 19920709 US AA PRIORITY (PATENT)
JP 92181980 A 19920709
US 5369449 P 19921102 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 970046 A 19921102
US 5369449 P 19921102 US AS02 ASSIGNMENT OF ASSIGNOR'S
INTEREST
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006,
OAZA KADOMA, KADOMA-SHI OSAKA, JAP ;
YUKITAKE, TAKESHI : 19921028; INOUE, SHUJI :
19921028
US 5369449 P 19941129 US A PATENT
US 5745182 P 19911108 US AA PRIORITY (PATENT)
JP 91293004 A 19911108
US 5745182 P 19920709 US AA PRIORITY (PATENT)
JP 92181980 A 19920709

US 5745182 P 19921102 US AA PRIORITY
US 970046 A3 19921102
US 5745182 P 19940720 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 278010 A 19940720
US 5745182 P 19980428 US A PATENT
US 5745182 P 20000613 US RF REISSUE APPLICATION FILED
(REISSUE APPL. FILED)
20000427
US 5978032 P 19911108 US AA PRIORITY (PATENT)
JP 91293004 A 19911108
US 5978032 P 19920709 US AA PRIORITY (PATENT)
JP 92181980 A 19920709
US 5978032 P 19921102 US AA PRIORITY
US 970046 A3 19921102
US 5978032 P 19940720 US AA PRIORITY
US 278010 A3 19940720
US 5978032 P 19970626 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 883315 A 19970626
US 5978032 P 19991102 US A PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5369449

<=1> GET 1st DRAWING SHEET OF 6
<=21> Link to Claims Section

November 29, 1994

LEXIS-NEXIS
Library: PATENT
File: ALL

Method for predicting move compensation

INVENTOR: Yukitake, Takeshi, Yokohama, JP; Inoue, Shuji, Yokohama, JP

APPL-NO: 970046 (07)

FILED-DATE: November 2, 1992

GRANTED-DATE: November 29, 1994

PRIORITY: November 8, 1991 - 3-293004, Japan (JP); July 9, 1992 - 4-181980, Japan (JP)

ASSIGNEE-AT-ISSUE: Matsushita Electric Industrial Co., Ltd., Osaka, JP

ASSIGNEE-AFTER-ISSUE: November 2, 1992 - ASSIGNMENT OF ASSIGNEES INTEREST., MATSUSHIA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZA KADOMA, KADOMA-SHI OSAKA, JAPAN, Reel and Frame Number: 006322/0099

LEGAL-REP: Stevens, Davis, Miller & Mosher

PUB-TYPE: November 29, 1994 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 348#699

US-ADDL-CL: 375#240.12

CL: 348, 375

SEARCH-FLD: 358#105, 358#133, 358#136, 348#413, 348#416, 348#699

APPL-NQ: 970046 (07)

FILED-DATE: November 2, 1992

GRANTED-DATE: November 29, 1994

PRIORITY: November 8, 1991 - 3-293004, Japan (JP); July 9, 1992 - 4-181980, Japan (JP)

ASSIGNEE-AT-ISSUE: Matsushita Electric Industrial Co., Ltd., Osaka, JP

ASSIGNEE-AFTER-ISSUE: November 2, 1992 - ASSIGNMENT OF ASSIGNEES INTEREST., MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006, OAZA KADOMA, KADOMA-SHI OSAKA, JAPAN, Reel and Frame Number: 006322/0099

LEGAL-REP: Stevens, Davis, Miller & Mosher

PUB-TYPE: November 29, 1994 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 348#699

US-ADDL-CL: 375#240.12

CL: 348, 375

SEARCH-FLD: 358#105, 358#133, 358#136, 348#413, 348#416, 348#699

IPC-MAIN-CL: H 04N007#137

PRIM-EXMR: Chin, Tommy P.

ASST-EXMR: Lee, Richard

REF-CITED:

<=2> 4691230, 1987, United States (US)
<=3> 4864294, 1989, United States (US)
<=4> 4989089, 1991, United States (US)
<=5> 4998168, 1991, United States (US)
<=6> 5049991, 1991, United States (US)
<=7> 5093720, 1992, United States (US)
<=8> 5105271, 1992, United States (US)

5,369,449 OR 5369449

Library: PATENT
File: CASES

1EYIC-N1EYIC

Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

5,369,449 OR 5369449

LEXIS-NEXIS
Library: PATENT
File: JNLS

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To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

5,369,449 OR 5369449

LEXIS-NEXIS
Library: NEWS
File: CURNWS

Your search request has found no STORIES.

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To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

1 / 1 PLUSPAT - ©QUESTEL-ORBIT - image

PN - **US5745182 A 19980428 [US5745182]**

TI - (A) Method for determining motion compensation

PA - (A) MATSUSHITA ELECTRIC IND CO LTD (JP)

PA0 - Matsushita Electric Industrial Company, Ltd., Osaka [JP]

IN - (A) YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)

AP- **US27801094 19940720 [1994US-0278010]**

FD -

Divsn of US970046 19921102 [1992US-0970046]

Division of: US5369449

PR-

JP18198092 19920709 [1992JP-0181980]

JP29300491 19911108 [1991JP-0293004]

US27801094 19940720 [1994US-0278010]

US97004692 19921102 [1992US-0970046]

IC -

(A) H04N-007/32

EC - H04N-005/14M2

H04N-007/26P36E

H04N-007/36E

H04N-007/36E4

H04N-007/36E8

PCL - ORIGINAL (O) : 375240160; CROSS-REFERENCE (X) : 348699000

DT - Basic

CT - US4691230; US4862266; US4864294; US4989089; US4998168; US5021881; US5027205; US5036393; US5049991; US5072293; US5093720; US5105271; US5132792; US5138446; US5142361; US5144427; US5157742; US5162907; US5175618; US5191414; US5200820; US5210605; US5424779; US5436674; EP0395440 A2; EP0395271 A2; EP0447068 A2; EP0484140 A2

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M. Hoetter, "Differential Estimation of the Global Motion Parameters Zoom and Pan", Signal Processing. European Journal Devoted to the Methods and Applications of Signal Processing, vol. 16, No. 3, Mar. 1989, pp. 249-265.

Patent Abstracts of Japan, vol. 016, No. 097 (E-1176) 10 Mar. 1992 & JP-A-03 276 988 (Victor Company of Japan Ltd) 9 Dec. 1991.

"Transmission of Component-Coded Digital Television Signals for Contribution-Quality Applications at the Third Hierarchical Level of CCITT Recommendation G.702," CCITT Recommendation 723 of CMTT, 1990.

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Takeshi Yukitake, "Field-Time Adjusted MC for Frame-Base Coding" CCITT SGXV Working Party XV/1 Experts Group for ATM Video Coding, AVC-194 MPEG 92/024s, Dec. 1991.

Shuji Inoue, et al "Motion Compensation Method for Interlace Video" Spring conference of the Institute of Electronics Information and Communication Engineers of Japan, 1992.

STG- (A) United States patent

AB - A method for predicting motion compensation for determining of an input image based on a motion vector of the input image from this input image to a reference image which has been

sampled at a first set time, and the method includes calculating a motion vector of the input image based on a move, at a second set time, of a block unit which is a part of the input image and consists of a plurality of pixels, and calculating a motion vector of the reference image based on a move, at the first set time, of a block unit which is a part of the reference image and consists of a plurality of pixels. Move compensation of the input image is calculated both from the motion vector of the input image and from the motion vector of the reference image, to thereby realize a method for determining motion compensation with high precision.

1 / 1 LGST - ©LEGSTAT
PN- US 5745182 [US5745182]
AP- US 278010/94 19940720 [1994US-0278010]
DT- US-P
ACT - 19940720 US/AE-A
APPLICATION DATA (PATENT)
US 278010/94 19940720 [1994US-0278010]

19980428 US/A
PATENT

20000613 US/RF
REISSUE APPLICATION FILED
20000427

UP - 2000-24

1 / 1 CRXX - ©CLAIMS/RRX
PN - 5,745,182 A 19980428 [US5745182]
PA - Matsushita Electric Industrial Co Ltd JP
ACT- 20000427 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20000613
REISSUE REQUEST NUMBER: 09/559627
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2713
Reissue Patent Number:
20010413 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20030429
REISSUE REQUEST NUMBER: 09/833680
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2713
Reissue Patent Number:
20010413 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20030429
REISSUE REQUEST NUMBER: 09/833769
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2713

Reissue Patent Number:
20010413 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20030429
REISSUE REQUEST NUMBER: 09/833770
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2713
Reissue Patent Number:

20010530 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20030429
REISSUE REQUEST NUMBER: 09/866811
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2713
Reissue Patent Number:

3/39/1 (Item 1 from file: 345)
DIALOG(R) File 345:Inpadoc/Fam.& Legal Stat
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11148435

Basic Patent (No,Kind,Date): CA 2082280 AA 19930509 <No. of Patents: 016>
Patent Family:

Patent No	Kind	Date	Applc No	Kind.	Date
AU 637289	B1	19930520	AU 9228162	A	19921104
CA 2082280	AA	19930509	CA 2082280	A	19921105 (BASIC)
CA 2082280	C	19950207	CA 2082280	A	19921105
DE 69225863	C0	19980716	DE 69225863	A	19921106
DE 69225863	T2	19981022	DE 69225863	A	19921106
EP 541389	A2	19930512	EP 92310187	A	19921106
EP 541389	A3	19940330	EP 92310187	A	19921106
EP 541389	B1	19980610	EP 92310187	A	19921106
JP 5130594	A2	19930525	JP 91293004	A	19911108
JP 6030395	A2	19940204	JP 92181980	A	19920709
JP 2929044	B2	19990803	JP 91293004	A	19911108
JP 2938677	B2	19990823	JP 92181980	A	19920709
KR 9506774	B1	19950622	KR 9220769	A	19921106
US 5369449	A	19941129	US 970046	A	19921102
US 5745182	A	19980428	US 278010	A	19940720
US 5978032	A	19991102	US 883315	A	19970626

Priority Data (No,Kind,Date):

JP 91293004 A 19911108
JP 92181980 A 19920709
US 278010 A 19940720
US 970046 A 19921102
US 883315 A 19970626
US 278010 A 19940720

PATENT FAMILY:

AUSTRALIA (AU)

Patent (No,Kind,Date): AU 637289 B1 19930520
METHOD FOR PREDICTING MOVE COMPENSATION (English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
Author (Inventor): YUKITAKE TAKESHI; INOUE SHUJI
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709
Applc (No,Kind,Date): AU 9228162 A 19921104
IPC: * G06F-015/70; G06F-015/68; H04N-007/137
Language of Document: English

CANADA (CA)

Patent (No,Kind,Date): CA 2082280 AA 19930509
METHOD FOR PREDICTING MOVE COMPENSATION (English; French)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709
Applc (No,Kind,Date): CA 2082280 A 19921105
IPC: *) H04N-007/12
Language of Document: English
Patent (No,Kind,Date): CA 2082280 C 19950207
METHOD FOR PREDICTING MOVE COMPENSATION (English; French)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 92181980 A 19920709; JP 91293004 A 19911108

Applie (No,Kind,Date): CA 2082280 A 19921105
IPC: * H04N-007/12
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: English

GERMANY (DE)

Patent (No,Kind,Date): DE 69225863 C0 19980716
VERFAHREN ZUR PRAEDIKTIVEN KODIERUNG MIT BEWEGUNGSKOMPENSATION (German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709
Applie (No,Kind,Date): DE 69225863 A 19921106
IPC: * H04N-007/24; H04N-007/32
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: German
Patent (No,Kind,Date): DE 69225863 T2 19981022
VERFAHREN ZUR PRAEDIKTIVEN KODIERUNG MIT BEWEGUNGSKOMPENSATION (German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709
Applie (No,Kind,Date): DE 69225863 A 19921106
IPC: * H04N-007/24; H04N-007/32
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: German

GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):
DE 69225863 P 19980716 DE REF CORRESPONDS TO (ENTSPRICHT)

DE 69225863 P 19981022 DE 8373 EP 541389 P 19980716 TRANSLATION OF PATENT
DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND
HAS BEEN PUBLISHED (UEBERSETZUNG DER
PATENTSCHRIFT DES EUROPÆISCHEN PATENTES IST
EINGEGANGEN UND VEROEFFENTLICHT WORDEN)
DE 69225863 P 19990708 DE 8364 NO OPPOSITION DURING TERM OF
OPPOSITION (EINSPRUCHSFRIST ABGELAUFEN OHNE
DASS EINSPRUCH ERHOBEN WURDE)

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 541389 A2 19930512
METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A 19920709
Applie (No,Kind,Date): EP 92310187 A 19921106
Designated States: (National) BE; DE; FR; GB; NL; SE
IPC: * H04N-007/13
Derwent WPI Acc No: ; G 93-154317
Language of Document: English
Patent (No,Kind,Date): EP 541389 A3 19940330
METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A

19920709

Applic (No,Kind,Date): EP 92310187 A 19921106
Designated States: (National) BE; DE; FR; GB; NL; SE
IPC: * H04N-007/13

Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053
Language of Document: English

Patent (No,Kind,Date): EP 541389 B1 19980610
METHOD FOR PREDICTING MOVE COMPENSATION (English; French; German)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)
Priority (No,Kind,Date): JP 92181980 A 19920709; JP 91293004 A 19911108

Applic (No,Kind,Date): EP 92310187 A 19921106
Designated States: (National) BE; DE; FR; GB; NL; SE
IPC: * H04N-007/24; H04N-007/32
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 541389	P	19911108	EP AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
EP 541389	P	19920709	EP AA	JP 91293004 A 19911108 PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
EP 541389	P	19921106	EP AE	JP 92181980 A 19920709 (EUROPAEISCHE ANMELDUNG)
EP 541389	P	19930512	EP AK	EP 92310187 A 19921106 DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT (IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
EP 541389	P	19930512	EP A2	BE DE FR GB NL SE PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT)
EP 541389	P	19940330	EP AK	DESIGNATED CONTRACTING STATES IN A SEARCH REPORT (IN EINEM RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
EP 541389	P	19940330	EP A3	BE DE FR GB NL SE SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93) (GESONDerte VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))
EP 541389	P	19941019	EP 17P	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT) 940818
EP 541389	P	19951220	EP 17Q	FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHEID) 951102
EP 541389	P	19980610	EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION: (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNTE VERTRAGSSTAATEN)

BE DE FR GB NL SE
EP 541389 P 19980610 EP B1 PATENT SPECIFICATION
(PATENTSCHRIFT)
EP 541389 P 19980716 EP REF CORRESPONDS TO:
(ENTSPRICHET)
DE 69225863 P 19980716
EP 541389 P 19980911 EP ET FR: TRANSLATION FILED (FR:
TRADUCTION A ETE REMISE)
EP 541389 P 19990602 EP 26N NO. OPPOSITION FILED (KEIN
EINSPRUCH EINGELEGT)
EP 541389 P 20020101 GB IF02/REG EUROPEAN PATENT IN FORCE AS
OF 2002-01-01

JAPAN (JP)

Patent (No,Kind,Date): JP 5130594 A2 19930525
DEVICE FOR PREDICTIVE ENCODING BETWEEN MOTION-COMPENSATED FRAMES
(English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
Author (Inventor): INOUE SHUJI
Priority (No,Kind,Date): JP 91293004 A 19911108
Applic (No,Kind,Date): JP 91293004 A 19911108
IPC: * H04N-007/137; H03M-007/30
JAPIO Reference No: ; 170511E000053
Language of Document: Japanese
Patent (No,Kind,Date): JP 6030395 A2 19940204
METHOD FOR PREDICTING MOTION COMPENSATION (English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
Author (Inventor): NAMETAKE TAKESHI; INOUE SHUJI
Priority (No,Kind,Date): JP 92181980 A 19920709
Applic (No,Kind,Date): JP 92181980 A 19920709
IPC: * H04N-007/137
JAPIO Reference No: ; 180246E000083
Language of Document: Japanese
Patent (No,Kind,Date): JP 2929044 B2 19990803
Priority (No,Kind,Date): JP 91293004 A 19911108
Applic (No,Kind,Date): JP 91293004 A 19911108
IPC: * H04N-007/32; H03M-007/30
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053
Language of Document: Japanese
Patent (No,Kind,Date): JP 2938677 B2 19990823
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD
Author (Inventor): NAMETAKE TAKESHI; INOUE SHUJI
Priority (No,Kind,Date): JP 92181980 A 19920709
Applic (No,Kind,Date): JP 92181980 A 19920709
IPC: * H04N-007/32
Language of Document: Japanese

KOREA, REPUBLIC (KR)

Patent (No,Kind,Date): KR 9506774 B1 19950622
MOTION COMPENSATION PREDICTIVE METHOD (English)
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)
Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SYUJI (JP)
Priority (No,Kind,Date): JP 91293004 A 19911108; JP 92181980 A
T9920709
Applic (No,Kind,Date): KR 9220769 A 19921106
IPC: * H04N-007/24
Derwent WPI Acc No: * G 93-154317
JAPIO Reference No: * 170511E000053; 180246E000083
Language of Document: Korean

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5369449 A 19941129

METHOD FOR PREDICTING MOVE COMPENSATION (English)

Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)

Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)

Priority (No,Kind,Date): JP 92181980 A 19920709; JP 91293004 A 19911108

Applic (No,Kind,Date): US 970046 A 19921102

National Class: * 348699000; 348416000

IPC: * H04N-007/137

Derwent WPI Acc No: * G 93-154317

JAPIO Reference No: * 170511E000053; 180246E000083

Language of Document: English

Patent (No,Kind,Date): US 5745182 A 19980428

METHOD FOR DETERMINING MOTION COMPENSATION (English)

Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)

Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)

Priority (No,Kind,Date): US 278010 A 19940720; JP 91293004 A 19911108; JP 92181980 A 19920709; US 970046 A3 19921102

Applic (No,Kind,Date): US 278010 A 19940720

Addnl Info: 5369449 Patented

National Class: * 348416000; 348699000

IPC: * H04N-007/32

Derwent WPI Acc No: * G 93-154317

JAPIO Reference No: * 170511E000053; 180246E000083

Language of Document: English

Patent (No,Kind,Date): US 5978032 A 19991102

METHOD FOR PREDICTING MOTION COMPENSATION (English)

Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (JP)

Author (Inventor): YUKITAKE TAKESHI (JP); INOUE SHUJI (JP)

Priority (No,Kind,Date): US 883315 A 19970626; JP 91293004 A 19911108; JP 92181980 A 19920709; US 278010 A3 19940720; US 970046 A3 19921102

Applic (No,Kind,Date): US 883315 A 19970626

Addnl Info: 5745182 Patented; 5369449 Patented

National Class: * 348416000; 348699000

IPC: * H04N-007/32

Derwent WPI Acc No: * G 93-154317

JAPIO Reference No: * 170511E000053; 180246E000083

Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5369449 P 19911108 US AA PRIORITY (PATENT)

JP 91293004 A 19911108

US 5369449 P 19920709 US AA PRIORITY (PATENT)

JP 92181980 A 19920709

US 5369449 P 19921102 US AE APPLICATION DATA (PATENT)

(APPL. DATA (PATENT))

US 970046 A 19921102

US 5369449 P 19921102 US AS02 ASSIGNMENT OF ASSIGNOR'S

INTEREST

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 1006,
OAZA KADOMA, KADOMA-SHI OSAKA, JAP ;
YUKITAKE, TAKESHI : 19921028; INOUE, SHUJI :

19921028

US 5369449 P 19941129 US A PATENT

US 5745182 P 19911108 US AA PRIORITY (PATENT)

JP 91293004 A 19911108

US 5745182 P 19920709 US AA PRIORITY (PATENT)

JP 92181980 A 19920709

US 5745182 P 19921102 US AA PRIORITY
US 970046 A3 19921102
US 5745182 P 19940720 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 278010 A 19940720
US 5745182 P 19980428 US A PATENT
US 5745182 P 20000613 US RF REISSUE APPLICATION FILED
(REISSUE APPL. FILED)
20000427
US 5978032 P 19911108 US AA PRIORITY (PATENT)
JP 91293004 A 19911108
US 5978032 P 19920709 US AA PRIORITY (PATENT)
JP 92181980 A 19920709
US 5978032 P 19921102 US AA PRIORITY
US 970046 A3 19921102
US 5978032 P 19940720 US AA PRIORITY
US 278010 A3 19940720
US 5978032 P 19970626 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 883315 A 19970626
US 5978032 P 19991102 US A PATENT

5745182

<=1> GET 1st DRAWING SHEET OF 6
<=32> Link to Claims Section

April 28, 1998

LEXIS-NEXIS
Library: PATENT
File: ALL

Method for determining motion compensation

REISSUE: Reissue Application filed Apr. 27, 2000 (O.G. Jun. 13, 2000) Ex. Gp.: 2713; Re. S.N. 09/559,627, (O.G. June 13, 2000)
April 13, 2001 - Reissue Application filed Ex. Gp.: 2713; Re. S.N. 09/833,680 (O.G. April 29, 2003)
April 13, 2001 - Reissue Application filed Ex. Gp.: 2713; Re. S.N. 09/833,769 (O.G. April 29, 2003)
April 13, 2001 - Reissue Application filed Ex. Gp.: 2713; Re. S.N. 09/833,770 (O.G. April 29, 2003)
May 30, 2001 - Reissue Application filed Ex. Gp.: 2713; Re. S.N. 09/866,811 (O.G. April 29, 2003)

INVENTOR: Yukitake, Takeshi - Yokohama, Japan (JP); Inoue, Shuji - Yokohama, Japan (JP)

APPL-NO: 278010 (08)

FILED-DATE: July 20, 1994

GRANTED-DATE: April 28, 1998

PRIORITY: November 8, 1991 - 3293004, Japan (JP); July 9, 1992 - 4181980, Japan (JP)

ASSIGNEE-AT-ISSUE: Matsushita Electric Industrial Co., Ltd., Osaka, Japan (JP), 03

LEGAL-REP: Watson Cole Stevens Davis, PL

PUB-TYPE: April 28, 1998 - Utility Patent having no previously published pre-grant publication (A)

LEGAL-REP: Watson Cole Stevens Dav PL

PUB-TYPE: April 28, 1998 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

REL-DATA:

Division of Ser. No. 07/970046, November 2, 1992, GRANTED 5369449

US-MAIN-CL: 375#240.16

US-ADDL-CL: 348#699

CL: 375, 348

SEARCH-FLD: 348#413, 348#416, 348#699, 348#400.-402, 348#407, 348#409.-412, 348#384, 348#390, 348#415

IPC-MAIN-CL: 6H 04N007#32

PRIM-EXMR: Lee, Richard

REF-CITED:

- <=2> 04691230, September, 1987, Kaneko et al., United States (US), 348699
- <=3> 04862266, August, 1989, Gillard, United States (US), 348699
- <=4> 04864294, September, 1989, Gillard, United States (US)
- <=5> 04989089, January, 1991, Chantelou et al., United States (US)
- <=6> 04998168, March, 1991, Gillard, United States (US), 348699
- <=7> 05021881, June, 1991, Avis et al., United States (US), 348699
- <=8> 05027205, June, 1991, Avis et al., United States (US), 348699
- <=9> 05036393, July, 1991, Samad et al., United States (US), 348699
- <=10> 05049991, September, 1991, Niihara, United States (US), 358105
- <=11> 05072293, December, 1991, De Haan et al., United States (US), 348699
- <=12> 05093720, March, 1992, Krause et al., United States (US), 358133
- <=13> 05105271, April, 1992, Niihara, United States (US), 358105
- <=14> 05132792, July, 1992, Yonemitsu et al., United States (US), 358105
- <=15> 05138446, August, 1992, Guichard et al., United States (US), 348699
- <=16> 05142361, August, 1992, Tayama et al., United States (US), 348699
- <=17> 05144427, September, 1992, Kitaura et al., United States (US), 358105
- <=18> 05157742, October, 1992, Niihara, United States (US), 348699
- <=19> 05162907, November, 1992, Keating et al., United States (US), 358105
- <=20> 05175618, December, 1992, Ueda et al., United States (US), 358105
- <=21> 05191414, March, 1993, Sugiyama, United States (US)

5,745,182 OR 5745182

LIBRARY
Library: PATENT
File: CASES

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To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

5,745,182 OR 5745182

LEXIS-NEXIS

Library: PATENT

File: JNLS

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To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

5,745,182 OR 5745182

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Your search request has found no STORIES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

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